



Anti-BMX (Cytoplasmic tyrosine-protein kinase BMX or Bone marrow tyrosine kinase gene in chromosome X protein) Polyclonal Antibody

Category: Polyclonal Antibody

Catalog #: AB3D284

Antigen Synonym: ETK (Epithelial and endothelial tyrosine kinase)

Species Reactivity: Human, Mouse

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of human BMX (Cytoplasmic tyrosine-protein kinase BMX or Bone marrow tyrosine kinase gene in chromosome X protein)

Description: The activity of BMX (Cytoplasmic tyrosine-protein kinase BMX or Bone marrow tyrosine kinase gene in chromosome X protein) is required for interleukin 6 (IL-6) induced differentiation. BMX may play a role in the growth and differentiation of hematopoietic cells. BMX may be involved in signal transduction in endocardial and arterial endothelial cells. BMX binds 1 zinc ion per subunit and interacts with RUFY1 and RUFY2. BMX is preferentially expressed in epithelial and endothelial cells. BMX is activated by IL-6 through phosphatidylinositol 3-kinase (PI3-kinase) pathway. It is likely that activation occurs through binding of phosphoinositides to the PH domain. SH2 domain mediates interaction with RUFY1 and BMX belongs to the protein kinase superfamily, Tyr protein kinase family and TEC subfamily.

Reference:

Tamagnone, L., et al, *Oncogene* 9 (12), 3683-3688 (1994)
Qiu, Y., et al, *Proc. Natl. Acad. Sci. U.S.A.* 95 (7), 3644-3649 (1998)
Nore, B.F., et al, *Biochim. Biophys. Acta* 1645 (2), 123-132 (2003)
Yang, J., et al, *J. Biol. Chem.* 277 (33), 30219-30226 (2002)

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